

AMENDMENT TO THE CLAIMS

Please cancel claim 1 and add new claims 33-55 as follows:

Claims 1-32 (Cancelled)

2124 33. ²⁷(New) An apparatus for the anaerobic proliferation and delivery of cells, tissue culture or microorganisms, the apparatus comprising an anaerobic proliferation chamber containing a growth medium, an inoculation chamber containing an inoculum, and an openable separator that separates the proliferation chamber from the inoculation chamber, wherein opening of the separator allows inoculation of the growth medium with the inoculum, wherein the inoculum is stable and viable beyond the normal life-span of a conventional culture in a closed container.

²⁸34. ²(New) The apparatus of claim 33, wherein the apparatus is totally enclosed and hermetically sealed.

²⁹35. (New) The apparatus of claim 33, wherein the separator and the inside of the proliferation chamber are sterile.

³⁰36. (New) The apparatus of claim 33, wherein the inoculation chamber is anaerobic.

³¹37. (New) The apparatus of claim 33, further comprising an opener for opening the separator without compromising the anaerobiosis of the inside of the chambers.

³²38. (New) The apparatus of claim 33, wherein the chambers are connected by a passage comprising the separator.

³³39. (New) The apparatus of claim 37, wherein the separator comprises a septum.

³⁴40. (New) The apparatus of claim 39, wherein the opener comprises a spike for piercing the septum.

³⁵41. (New) The apparatus of claim 38, wherein the inoculation chamber comprises a vial-type container comprising a mouth connected to one end of the passage.

- ³⁶42. (New) The apparatus of claim 41, wherein the septum covers the mouth.
- ³⁷43. (New) The apparatus of claim 42, wherein a spike is mounted in the passage and directed at the septum, and wherein the mouth of the inoculation chamber is connected to the passage by an advancer that advances the inoculation chamber towards the spike thereby allowing the spike to pierce the septum.
- ³⁸44. (New) The apparatus of claim 33, wherein the inoculation chamber is flexible and is compressible after the septum has been opened.
- ³⁹45. (New) The apparatus of claim 44, further comprising an urging function that urges the inoculum into the proliferation chamber after the septum has been opened.
- ⁴⁰46. (New) The apparatus of claim 33, wherein a pressure difference between the chambers causes the inoculum to flow into the proliferation chamber after the septum has been opened.
- ⁴¹47. (New) The apparatus of claim 46, wherein the pressure difference is created during the anaerobic cultivation of the cells, tissue culture or microorganisms in the inoculation chamber.
- ⁴²48. (New) The apparatus of claim 33, further comprising a port for connecting to a dosing or application means.
- ⁴³49. (New) The apparatus of claim 33 wherein the proliferation chamber comprises a flexible infusion bag-type container.
- ⁴⁴50. (New) The apparatus of claim 33 wherein the proliferation chamber comprises a carboy-type container.
- ⁴⁵51. (New) The apparatus of claim 33, further comprising an incubator for controlling the proliferation conditions of inoculated growth media.
- ⁴⁶52. (New) A method for the proliferation and delivery of cells, tissue culture or microorganisms, the method comprising:
- (a) disposing an inoculum in an inoculation chamber;

- (b) disposing a growth medium for the inoculum in an anaerobic proliferation chamber which is separated from the inoculation chamber by an openable separator;
- (c) opening the separator to inoculate the growth medium;
- (d) allowing the cells, tissue cultures and/or microorganisms to proliferate under anaerobic conditions in the proliferation chamber to form a proliferated culture; and,
- (e) dispensing the proliferated culture from the proliferation chamber.

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53. (New) The method of claim 52, wherein the inoculation chamber is anaerobic and wherein the steps of disposing, inoculating, opening, and proliferation occur anaerobically.

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54. (New) The method of claim 52, further comprising controlling proliferation conditions of the inoculated growth medium.

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55. (New) A unitary, disposable and portable apparatus for the proliferation and deliver of cells, tissue culture or microorganisms, the apparatus comprising an anaerobic proliferation chamber comprising a growth medium, an inoculation chamber comprising an inoculum, and a means for separating the proliferation and inoculation chambers, the separating means being openable to connect the insides of the chambers to each other to inoculate the growth medium with the inoculum, and to allow proliferation of the cells, tissue culture or microorganisms under anaerobic conditions, wherein the inoculum and growth medium are stored and transported separated from each other in the apparatus until such time as a proliferated culture is to be applied, whereupon the growth medium is inoculated and proliferation allowed to take place, whereafter the proliferated culture is dispensed from the apparatus.